Please type a plus sign (+) inside this box → ✓ MAY 1

MAY 1 8 2007

CH THAIR

Approved for use through 103/99,0MB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
a collection of information united a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons a

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known				
Application Number	10/552179			
Filing Date	OCTOBER 5, 2005			
First Named Inventor	CRISTINA GOMILA ET AL.			
Group Art Unit	2621			
Examiner Name	MEHRDAD DASTOURI			
Attorney Docket Number	PU030116			

	U.S. PATENT DOCUMENTS						
Examiner Initials'		Cite No.1		Coment Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
//	S/L		US2002003433	7	SHEKTER	03-21-2002	
٠,	Т		US4935816		FABER	06-19-1990	
	Т		US5140414		MOWRY	08-18-1992	
	Т		US5335013		FABER	08-02-1994	
			US5374954		MOWRY	12-20-1994	
			US5406326		MOWRY	04-11-1995	
	Т		US5471572		BUCHNER ET AL.	11-28-1995	
			US5475425		PRZYBORSKI ET AL.	12-12-1995	
			US5629769	\neg	COOKINGHAM ET AL.	05-13-1997	
	П		US5641596		GRAY ET AL.	06-24-1997	
	ш		US5687011		MOWRY	11-11-1997	
	П		US5709972		COOKINGHAM ET AL.	01-20-1998	
1	1		US5767860		ZIMMER ET AL.	06-16-1998	
-	7		US5831673		PRZYBORSKI ET AL.	11-03-1998	
	IS!		US5457491		MOWRY	10-10-1995	
	\perp						
	4						
_	_						
	4			\perp			
			l	- 1	1	1 1	

					FOR	EIGN PATENT DOCUMENT	S		
Fve	Examiner Cite			Foreign Patent Docu		Name of Patentee or	Date of Publication of	Peges, Columns, Lines, Where Relevent	П
Initi	als"	No.1	Office	3 Number ⁴	Kind Code ⁵ (if known)	Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	T ⁶
\mathcal{I}	IS/		EP	EP0622000		FABER	10-15-1992		П
П			EP	EP1175091		PRZYBORSKI ET AL.	01-23-2002	``	П
			EP	EP1215624		EASTMAN KODAK COMPAN'	06-19-2002		П
			wo	WO0146992		BROWN UNIVERSITY RESEA	06-28-2001		\Box
С			wo	WO0177871		DEMOGRAFX	10-18-2001		\Box
			wo	WO2004104931		THOMSON LICENSING S.A.	12-02-2004		
	/		wo	WO9314591		FABER	07-22-1993		Т
\Box	1		wo	WO9520292		PRZYBORSKI ET AL.	07-27-1995		
/	S/		wo	WO9722204		PRZYBORSKI	06-19-1997		\Box
L					. 1				1 1

Examiner Signature	/Ishrat Sherali/ (07/17/2010)	Date Considered	07/17/2010	\bigcap
'EXAMINER: Initial	if reference considered, whether or not citation is in conformat	ce with MPEP 609. Draw line t	hrough citation if not in conformance	and not

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and nonsidered. Include copy of this form with next communication to applicant.

Unique childron designation number. ** See attached Kinds of U.S. Pasent Documents. ** Erent Office that issued the document, by the two-letter code (WIPPO Standard ST.3. ** For Juneane patent occuments, the indication of the year of the reign of the Emperor must proceed the serial number of the patent document. ** Kind of document by the appropriate symbols as indicated on the document under WIPPO Standard ST. 16.8 possible. ** Application is to place a check mark here if Eignish inapuges Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete the form bindule be sent to the Orbit Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND ITO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/08B (10-96)
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to re ection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449B/PTO Application Number 10/552179 INFORMATION DISCLOSURE OCTOBER 5, 2005 Filing Date STATEMENT BY APPLICANT First Named Inventor CRISTINA GOMILA ET AL. Group Art Unit 2621 (use as many sheets as necessary) Examiner Name MEHRDAD DASTOURI Sheet 2 of 3 Attorney Docket Number PU030116

xaminer nitials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
/IS/		, AL-SHAYKH ET AL, "Lossy Compression of Images Corrupted by Film Grain Noise," School of Electrical and Computer Engineering, 1996 IEEE.	
		, AL-SHAYKH ET AL, "Restoration of Lossy Compressed Noisy Images," IEEE Transactions on Image Processing, Vol. 8, No. 10, October 1999.	
		, AL-SHAYKH, "Lossy Compression of Noisy Images," IEEE Transactions on Image Processing, Vol. 7, No. 12, December 1998.	ľ
		, BRIGHTWELL ET AL, "Automated Correction of Film Unsteadiness, Dirt and Grain," International Broadcasting Convention, September 16-20, 1994, Conference Publication No. 397, IEE, 1994.	
		, CAMPISI ET AL, "Signal-Dependent Film Grain Noise Generation Using Homomorphic Adaptive Filtering," IEE Proceedings, Image Signal Process, Vol. 147, No. 3, June 2000.	Ī
		, ZHAO ET AL, "Constant Quality Rate Control for Streaming MPEG-4 Fgs. Video," Integrated Media Systems Center and Department of Electrical Engineering, University of Southern California, 2000 IEEE.	Ī
		, CHAVEL ET AL, "Film Grafin Notse in Partially Coherent Imaging," Optical Engineering, Vol. 19, No. 3, May- June 1980.	ľ
		, FISCHER ET AL, "Image Sharpening Using Permutation Weighted Medians," Department of Electrical Engineering, University of Detaware, fischer@ee.udel.edu, paredes@ee.udel.edu, arce@ee.udel.edu.	Ī
		, ILLINGWORTH ET AL, "Vision, Image and Signal Processing," The Institution of Electrical Engineers, IEE Proceedings, June 2000, Vol. 147, No. 3.	ľ
		, MCLEAN ET AL, "Telecine Noise Reduction," XP-002285972, 2001 The Institute of Electrical Engineers.	
/IS/		, OKTEM ET AL, "Transform Domain Algorithm for Reducing Effect of Film-Grain Noise in Image Compression," Electronics Letters, October 14, 1999, Vol. 35, No. 21.	

Examiner Signature //shrat Sherali/ (07/17/2010)	Date Considered	07/17/2010
--------------------------------------------------	--------------------	------------

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Now Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. OD NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, (Washington, DC 20231.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box →

ProsBodist (10.59)

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it continue a valid DMS correct number. Complete if Known Substitute for form 1449B/PTO **Application Number** 10/552179 INFORMATION DISCLOSURE Filing Date **OCTOBER 5, 2005** STATEMENT BY APPLICANT First Named Inventor CRISTINA GOMILA ET AL Group Art Unit 2621 (use as many sheets as necessary) Examiner Name MEHRDAD DASTOURI of Sheet 3 3 Attomey Docket Number PU030116

Examiner	Cite	include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the	Т
Initials' No.1		item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2 K/02.
		, PRADES-NEBOT ET AL, "Rate Control for Fully Fine-Grained Scalable Video Coders," Visual Communications and Image Processing 2002, Proceedings of SPIE, Vol. 4671 (2002), SPIE 0277-786X/02.	
		, SCHAAR ET AL, "Fine-Granularity-Scalability for Wireless Video and Scalable Storage," Visual Communications and Image Processing 2002, Proceedings of SPIE, Vol. 4671 (2002) SPIE 0277-786X/02.	ľ
		, SHAHNAZ ET AL, "Image Compression in Signal-Dependent Noise," Applied Optics, Vol. 38, No. 26, September 10, 1999.	ľ
		, YAN ET AL, "Efficient Video Coding with Hybrid Spatial and Fine-Grain SNR Scalabilities," Department of Electronic Engineering, Beijing Institute of Technology, China.	
		, YAN ET AL, "Film Grain Noise Removal and Generation for Color Images," Department Electrical and Computer Engineers, University of Toronto, dimitris@comm.toronto.edu.	
		. YAN ET AL, "Signal-Dependent Film Grain Noise Removal and Generation Based on Higher-Order Statistics," University of Toronto, Department of Electrical and Computer Engineering, dimitris@comm.toronto.edu, 1997 IEEE.	Ī
		, YOSHIDA, "Go with the Grain, Film R&D Chief Urges, for Art's Sake," EE Times, February 07, 2005.	
		ZHANG ET AL, "Constant Quality Constrained Rate Allocation for FGS Video Coded Bitstreams," Visual Communications and Image Processing 2002, Proceedings of SPIE, Vol. 4671 (2002) SPIE 0277-786X/02.	Ì
/IS/		PENG ET AL, "Adaptive Frequency Weighting for Fine-Granularity-Scalability," Visual Communications and Image Processing 2002, Proceedings of SPIE, Vol. 4671 (2002) SPIE 0277-786X/02, pp. 840-849.	

Examiner Signature	/Ishrat Sherali/ (07/17/2010)	Date Considered	07/17/2010

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.